

**INDIANA FIRE ACADEMY TRAINING SYSTEM**  
**A Division of Indiana Homeland Security**

**DRIVER OPERATOR MOBILE WATER SUPPLY**



**EVALUATOR**  
**PRACTICAL SKILLS AND EXAMINATION HANDBOOK**

**Reference material needed for this course:**

NFPA 1002, 2014 Edition: Standard for Fire Apparatus Driver/Operator Professional Qualifications

JONES AND BARTLETT, Fire Apparatus Driver/Operator, 2<sup>nd</sup> Ed. (Ch. 2, 3, 8, 9, 10, 12, 19)

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**Skill Sheet # 1, Preventative Maintenance**

**Perform the specified routine tests, inspections and servicing functions specified in the following list given a fire dept. mobile water supply apparatus and its manufacturer's specifications, so that the operational status of the mobile water supply is verified. (NFPA 1002, 2014 Ed.; 4.2.1, 10.1.1)**

**Equipment & Materials**

- Fully equipped mobile water supply apparatus
- Forms to fill out
- Access to dept. policies and procedures
- Equipment to complete the task

Task Steps	
1.	Battery
2.	Braking System
3.	Coolant and Hydraulic Fluid
4.	Electrical Systems
5.	Fuel
6.	Oil
7.	Tires
8.	Steering System
9.	Belts
10	Tools/Appliances
11	Inspect water tank and water level in accordance with departmental policies

Prevent or prohibit any unsafe acts.

Contact the Lead Evaluator at any time with any questions

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**(Continuation of Page 1, Skill Sheet #1)**

Date of Inspection	Apparatus	Personnel Completing Inspection

  

Engine Running	Item
1	Gauges-Ammeter, oil pressure, water temperature, air pressure vacuum
2	Windshield wipers and washer fluid
3	All window glass and reflectors
4	Heater Defroster / Air Conditioning
5	Brakes (foot and parking)
6	Horns, sirens, emergency lighting (rotating and fixed)
7	Engine Noises (normal, within manufacturer specifications)
8	Clutch-Transmission shifting manual and/or automatic, drive train operation
9	Steering
10	Leaks-water, fuel and oil
11	Head lights, tail stop and marker lights, emergency flashers
12	Water tank/extinguishing agent level(s)
13	Pumping systems (if applicable)
14	Rapid dump system (if applicable)
15	Foam systems (if applicable)
Engine Not Running	Item
16	Vehicle body
17	Wheels, tires (tread and depth) and lugs
18	Fuel tank and cap
19	Brake hoses, air hoses, steering linkage, suspension
20	Drain air tanks of moisture
21	Compartments and doors, mounted equipment
22	Engine transmission, rear end fluid levels
23	Pump oil level (if applicable)
24	Batteries, liquid levels and corrosion problems
25	Portable equipment for operation and liquid levels

**In the space below, explain any item(s) requiring service & any other important information:**


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**Skill Sheet #2, Operations**

**Maneuver and position a mobile water supply apparatus at a water shuttle fill site, given a fill site location and one or more supply hose(s), so that the apparatus is correctly positioned, supply hose(s) are attached to the intake connections without having to stretch additional hose, and no objects are struck at the fill site. (NFPA 1002, 2014 Ed.; 10.2.1)**

**Equipment & Materials**

- Operational Mobile Water Supply Apparatus
- Supply hose
- Water shuttle fill site
- Spotter
- Traffic Control (if applicable)

Task Steps	
1.	Position mobile water supply apparatus at fill site so to provide for connection of fill hose(s)
2.	Connect one or more supply hose(s) to the intake connection(s) of the mobile water supply apparatus
3.	Operate intake valve(s) on mobile water supply apparatus to allow for fill
4.	Fill mobile water supply apparatus in a controlled manner to ensure tank is full without excess waste
5.	Disconnect supply hose(s) and prepare fill site for mobile water supply apparatus departure. Move to dump site.

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**Skill Sheet # 3, Operations**

**Maneuver and position a mobile water supply apparatus at a water shuttle dump site, given a dump site and a portable tank and no objects are struck at the dump site. (NFPA 1002, 2014 Ed.; 10.2.2, 10.2.3)**

**Directions**

The student shall set up and provide a water shuttle dump site to include 2 or more portable tanks, shall demonstrate a method to maintain adequate water levels and transfer water from 1 tank to the other, provide for ease of operation for dumping apparatus and provide for an adequate fill site that allows for access and ease of filling for apparatus. Prior to training, check for any environmental concerns (i.e. watering restrictions). If an environment concern is in place, evaluator can simulate the tank being full of water.

**Equipment & Materials**

- Operational Mobile Water Supply Apparatus
- 2 or more portable water tanks
- Location to safely perform required tasks
- Traffic Control (if applicable)
- Spotter
- Pumper Apparatus with Qualified Operator

Task Steps	
1.	Establish a water shuttle dump site with two or more portable water tanks
2.	Maneuver and position mobile water supply apparatus at the water shuttle dump site so that the apparatus is properly positioned, that water discharged from the apparatus enters the desired tank and that no objects are struck at the dump site
3.	Supplied pumper will maintain draft and fire stream during dump operations and student shall ensure that the tank being dumped into is emptied first, and the water is transferred effectively from one tank to the other.
4.	Safely drain portable tank

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**Skill Sheet # 4, General**

**Given a fire department mobile water supply apparatus, demonstrate safe, efficient operation of the vehicle upon jurisdictional street and highways under conditions outlined below in the performance section. (NFPA 1002, 2014 Ed.; 4.3.1)**

**Directions**

The student must complete all of the maneuvers while operating a mobile water supply apparatus.

**Equipment & Materials**

- Operational Mobile Water Supply Apparatus
- Instruction before beginning

Task Steps	
1.	Operate Passenger Restraint Devices
1.	Four left turns
2.	Four right turns
3.	A straight section of urban business street or a two-lane rural road at least 1 mile in length
4.	One through-intersection and two intersections where a stop has to be made
5.	One curve, either left or right
6.	One railroad crossing (if unavailable, demonstrate procedures)
7.	A section of limited-access highway that includes a conventional ramp entrance and exit and a section of road long enough to allow two lane changes. (if unavailable, demonstrate procedures)
8.	A downgrade steep enough and long enough to require down-shifting and braking (if unavailable, demonstrate procedures)
9.	An upgrade steep enough and long enough to require a gear changing to maintain speed (if unavailable, demonstrate procedures)
10	One underpass or a low clearance or bridge (if unavailable, demonstrate procedures)

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**Skill Sheet #5, Driving/Operating**

**The student, given a fire department mobile water supply apparatus, shall demonstrate safe, efficient operation of the mobile water supply apparatus within an established obstacle course to measure abilities and judgments in maneuvering within confined areas simulating general driving. (NPFA 1002, 2014 Ed.; 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6)**

**Directions**

The student must complete all of the maneuvers while operating a mobile water supply apparatus. The student shall verify that all occupants are properly restrained.

**Equipment & Materials**

- Operational Mobile Water Supply Apparatus
- Spotter (where noted)
- Safety Vests Recommended for Ground Personnel
- Traffic Control (if applicable)
- Measuring Device and Control Devices (cones/barricades)

Task Steps	
1.	The student shall back a mobile water supply apparatus from a roadway into restricted spaces on both sides of the vehicle, given a safety spotter during backing, and restricted spaces (12' width) requiring 90 degree right hand and left hand turns from the roadway, so that the vehicle is parked within the restricted areas without having to stop and pull forward and without striking obstructions. (Alley Dock, 4.3.2) ** ADD SKETCH **
2.	The student shall maneuver a mobile water supply apparatus around obstructions on a roadway while moving forward and in reverse so that the vehicle is maneuvered through obstructions, without stopping to change direction of travel and without striking the obstructions. Safety spotter during backing. (Serpentine, 4.3.3) ** ADD SKETCH **
3.	The student shall turn a mobile water supply apparatus 180 degrees within a confined space small enough that a U turn cannot be accomplished without stopping and backing up. The vehicle must be turned 180 degrees without striking obstructions within the given space. Safety spotter during backing.

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	(Confined Space Turnaround, 4.3.4) ** ADD SKETCH **
<b>4.</b>	The student shall maneuver a mobile water supply apparatus in areas of restricted horizontal and vertical clearances so that the operator accurately judges the ability of the vehicle to pass through the openings of that no obstructions are struck. (Diminishing Clearance, 4.3.5) ** ADD SKETCH **
<b>5.</b>	The student shall operate a mobile water supply apparatus by using defensive techniques under simulated emergency conditions, so that control of the vehicle is maintained. (4.3.6)

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**Evaluator Notes:**

- SKILL 3 - A supplied pumper with qualified operator should provide drafting and maintain fire streams.

- SKILL 3 - If a second portable tank is not available, student may demonstrate use of water transfer equipment